

PRECIMETER

Molten metal level control

ProH TwinDelta – Mould Edition Sensor





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The Laser Camera Sensor model ProH from Precimeter combines high performance laser triangulation with the necessary control functions to maintain an accurate molten metal level measurement. The patented digital camera technology in the Precimeter sensors results in very high performance and resolution.

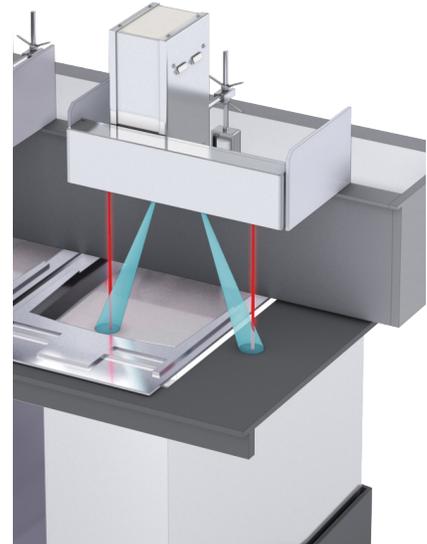
The advanced technology enables stable readings even when the molten metal material reflectivity changes dramatically and/or in harsh conditions with heavy steam and smoke environment.

The ProH TwinDelta sensor is, amongst other applications, very suitable in slab casting applications for mould level control.

Principle: The sensor measures the difference between the edge of the mold and the molten metal surface. This means that the calibration is maintained and the level of the molten metal is absolute correct.

ADVANTAGES

- ✓ Adapted for optimal performance in slab casting mould application
- ✓ Enhanced cooling system
- ✓ Extremely accurate measurement
- ✓ Stable performance in harsh conditions/environment
- ✓ Easy installation
- ✓ Compact design
- ✓ Maintenance free
- ✓ Surface adaption system
- ✓ Precimeter Tool (PC Software) for access to all sensor parameters



Technical Specifications

Power requirement	24 VDC < 1 A
Level Output	4-20 mA
Internal Temp Output	4-20 mA (0-100°C, 32-212°F)
Digital Input	Light source on/off
Digital Output	Sensor status
Resolution	±0.07 mm
Ethernet Protocol	Optional (Profinet, Ethernet IP or Modbus TCP)
Interface	Precimeter tool (PC software)
Sampling rate	50 Hz
Laser power	< 1 mW (Laser class 2) / < 5 mW (Laser class 3R)
Cooling	Compressed air (3/8" connection)

Sensor Models

Sensor Models	Clearance Distance	Measurement Range
ProH CD450R300	450 mm (17.7")	300 mm (11.8")